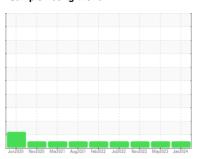


OIL ANALYSIS REPORT

Sample Rating Trend







Machine Id DT678

Component **Diesel Engine**

PETRO CANADA DURON SHP 10W30 (36 h

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor. Please specify the component make and model with your next sample.

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil.

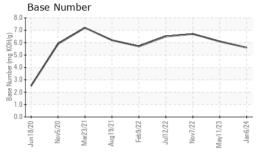
Fluid Condition

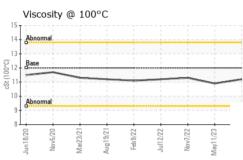
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

hrs)		Jun2020 No	2020 Mar2021 Aug2021	Feb 2022 Jul2022 Nov2022 May20	23 Jan2024	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PCA0114708	PCA0084971	PCA0084933
Sample Date		Client Info		06 Jan 2024	11 May 2023	07 Nov 2022
Machine Age	mls	Client Info		224390	224390	199925
Oil Age	mls	Client Info		199925	199925	151036
Oil Changed		Client Info		Changed	Not Changd	Changed
Sample Status				NORMAL	NORMAL	NORMAL
CONTAMINATI	ON	method	limit/base	current	history1	history2
Fuel		WC Method	>5	<1.0	<1.0	<1.0
Water		WC Method	>0.2	NEG	NEG	NEG
Glycol		WC Method		NEG	NEG	NEG
WEAR METALS	3	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>100	13	13	13
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>4	<1	<1	0
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m	>3	<1	<1	<1
Aluminum	ppm	ASTM D5185m		4	4	4
Lead	ppm	ASTM D5185m	>40	2	<1	<1
Copper	ppm	ASTM D5185m		2	2	3
Tin	ppm	ASTM D5185m	>15	1	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	4	7	10
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m	50	54	61	47
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	950	864	916	827
Calcium	ppm	ASTM D5185m	1050	1010	1061	1198
Phosphorus Zinc	ppm	ASTM D5185m	995	1006	938 1196	874 1071
Sulfur	ppm	ASTM D5185m ASTM D5185m	1180 2600	1203 2534	3110	3183
	ppm					
CONTAMINAN		method	limit/base	current	history1	history2
Silicon	ppm		>25	7	6	7
Sodium Potassium	ppm	ASTM D5185m	. 20	4	3	3
	ppm	ASTM D5185m	>20	3		
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	*ASTM D7844	>3	0.4	0.5	0.5
Nitration	Abs/cm	*ASTM D7624	>20	9.4	9.1	10.1
Sulfation	Abs/.1mm	*ASTM D7415	>30	21.1	21.4	23.7
FLUID DEGRAD	ATION	method	limit/base	current	history1	history2
Oxidation	Abs/.1mm	*ASTM D7414	>25	17.2	16.9	18.1
Base Number (BN)	mg KOH/g	ASTM D2896		5.6	6.1	6.7



OIL ANALYSIS REPORT

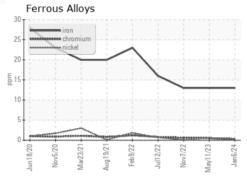


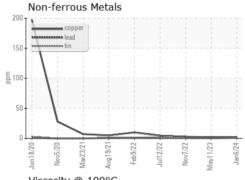


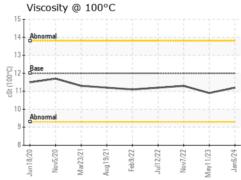
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG

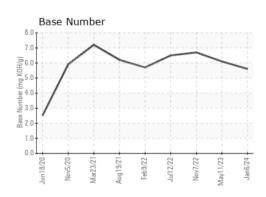
FLUID PROPE	ERTIES	method				history2
Visc @ 100°C	cSt	ASTM D445	12.00	11.2	10.9	11.3

GRAPHS













Certificate L2367

Laboratory Sample No. Lab Number **Unique Number** Test Package : FLEET

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : PCA0114708 : 06063430 : 10834812

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Recieved : 17 Jan 2024 Diagnosed

: 18 Jan 2024 Diagnostician : Wes Davis

NW WHITE & CO - COLUMBIA DIVISION 100 INDEPENDENCE BLVD

COLUMBIA, SC US 29210

Contact: GEORGE EDWARDS

gedwards@nwwhite.com T:

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

F: